

Arlon 55978X030 0.0305" (0.775 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Layer Side 2: Cured/Uncured Layers Appearance: Gray silicone gum on glass fiber fabric This data Represents typical values for the production material. The data should not be used to write, or in place of, material specifications. Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-55978X030-00305-0775-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	12.7 microns	0.500 mil	Side 1, Skim Coat
	50.8 microns	2.00 mil	Side 2, Cured
	76.2 microns	3.00 mil	Polyethylene, Interleave
	>= 203 microns	>= 8.00 mil	Side 2, Uncured
	457 microns	18.0 mil	Prime Coated 162 Fiberglass, Substrate
	749 - 876 microns	29.5 - 34.5 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60 - 70	60 - 70	Compound Property
Tensile Strength	>= 5.86 MPa	>= 850 psi	Compound Property
Elongation at Break	>= 200 %	>= 200 %	Compound Property
Peel Strength	>= 1.05 kN/m	>= 6.00 pli	Bond Strength

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	V-0	V-0	Compound Rated

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 15.7 kV/mm	>= 400 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Temperature 177 °C	@Temperature 350 °F	
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture

Descriptive Properties	Value	Comments
Color	Blue Gray	
Total Product Weight (oz/yd2)	29 - 33	
Uncoated Fabric Break Strength	420 lb/in	Fill Direction, Substrate Property
	700 lb/in	Warp Direction, Substrate Property

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